

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (canceled).

2. (currently amended): An optical recording apparatus according to claim 41,
further comprising:

a correction coefficient storing portion for storing a correction coefficient for the driving current value corresponding to the temperature of said light source in advance,

wherein said light power control portion adjusts the driving current value of said light source by using the correction coefficient already stored in said correction coefficient storing portion when the driving current adjustment value corresponding to a current temperature detection value is not stored in said detection value storing portion.

3. (currently amended): An optical recording apparatus according to claim 41,
wherein:

said light power control portion computes an interpolation value of the stored detection value to adjust the driving current of said light source based on the interpolation value.

4. (currently amended): An optical recording apparatus for performing recording by irradiating a light beam emitted from a light source to a recording medium, comprising:
- a light source driving portion for driving said light source;
 - an emitted light power detecting portion for detecting an emitted light power from said light source;
 - a temperature detecting portion for detecting a temperature of said light source;
 - a light power control portion for adjusting a driving current of said light source such that a change rate of an emitted light power detection value from said emitted light power detecting portion falls within a predetermined range;
 - a detection value storing portion for storing a driving current adjustment value from said light power control portion and a temperature detection value from said temperature detecting portion in an associated manner; and
- ~~An optical recording apparatus according to claim 1, further comprising:~~
- a medium determining portion for determining whether the recording medium is newly loaded or not;
 - wherein said light power control portion adjusts the driving current value of said light source based on a stored detection value in said detection value storing portion when the temperature detection value is within a range of temperature detection values already stored in said detection value storing portion; and

wherein said detection value storing portion updates the stored detection value with a new detection value when said medium determining portion determines that the recording medium is newly loaded.

5-6. (canceled).

7. (currently amended): A method according to claim 69, further comprising:
a correction coefficient storing step of storing a correction coefficient for the driving current value corresponding to the temperature of said light source in advance,

wherein said light power control step adjusts the driving current of said light source by using the correction coefficient already stored in said correction coefficient storing step when the driving current adjustment value corresponding to a current temperature detection value is not stored in said detection value storing step.

8. (currently amended): A method according to claim 96, wherein:
said light power control step computes an interpolation value of the stored detection value to adjust the driving current of said light source based on the interpolation value.

9. (currently amended): A recording method of an optical recording apparatus for performing recording by irradiating a light beam emitted from a light source to a recording medium, comprising:

a light source driving step of driving said light source;

an emitted light power detecting step of detecting an emitted light power from said light source;

a temperature detecting step of detecting a temperature of said light source;

a light power control step of adjusting a driving current of said light source such that a change rate of an emitted light power detection value in said emitted light power detecting step fall within a predetermined range;

a detection value storing step of storing a driving current adjustment value in said light power control step in association with a temperature detection value obtained in said temperature detecting step; and

~~A method according to claim 6 further comprising:~~

a medium determining step of determining whether the recording medium is newly loaded or not;

wherein said light power control step adjusts the driving current of said light source based on a stored detection value in said detection value storing step when the temperature detection value is within a range of temperature detection values already stored in said detection value storing step; and

wherein said detection value storing step updates the stored detection value with a new detection value when it is determined that the recording medium is newly loaded in said medium determining step.

AMENDMENT UNDER 37 C.F.R. § 1.116
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10. (canceled).